



Plastics Project

Year Group	Explore & Learn	Imagine & Plan	Engineering Day Build
Reception	<p>Links to Literacy: Duffy's Lucky Escape</p> <ul style="list-style-type: none"> • Getting out of a bind • The Early Bird gets the plastic (PLASTIC POLLUTION CURRICULUM) 	<p>EYFS ppt Create an Ocean Jar</p>	<p>Links to Art & Design: Create a sculpture from plastic bottles – or face masks</p>
Year 1	<p>Links to Literacy - Superheroes: Captain Green and the Plastic Scene</p> <p>Use ideas from Year 1 ppt - Make your own poster</p>	<p>Links to Science - floating and sinking: Hamilton lesson plan – investigating different object. Can you make a plasticine boat? Which shape is best? What happens when you roll the plasticine into a ball?</p>	<p>Making the plastic boats: https://www.plasticeducation.com/sites/default/files/pbbc_boat_design.pdf https://www.plasticeducation.com/world-record</p>
Year 2	<p>Links to Literacy & Science: Let's Investigate Plastic Pollution</p> <ul style="list-style-type: none"> • How materials biodegrade in soil. <p>https://www.rubytuesdaybooks.com/scienceKS1/pdf/plasticPollution_page11.pdf</p>	<p>Links to Science: Let's make some compost (plants) https://www.rubytuesdaybooks.com/scienceKS1/pdf/plasticPollution_page28.pdf</p>	<p>https://balconygardenweb.com/plastic-bottle-vertical-garden-soda-bottle-garden/</p>
Year 3	<p>Links to Literacy: Adventures of a plastic bottle</p> <p>Practical Action resource Identifying plastics Waste timeline</p>	<p>Design some plastic free packaging: https://www.rubytuesdaybooks.com/scienceKS1/pdf/plasticPollution_page09.pdf</p>	<p>Design a device to sort objects: https://education.lego.com/en-gb/lessons/wedo-2-science/sort-to-recycle</p>
Year 4	<p>Lifecycle of a plastic drinks bottle Science: Making bioplastic Whizz Pop Bang – wet separation</p>	<p>Links to Literacy: One Plastic Bag – story of the recycling women of the Gambia.</p>	<p>What can I do with plastics? Making a skipping rope or basket out of plastic bags https://www.budgetdumper.com/blog/5-recycled-plastic-bag-projects/</p>



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Year 5

Research:

- How extensive is the current plastic problem in our oceans?
- What solutions exist already to help clean-up the floating debris?

Links: <https://www.cbc.ca/kidscbc2/the-feed/meet-the-inventor-behind-cleaning-up-the-oceans>

Cleaning the Ocean:

Design and build a LEGO prototype of a device that could help remove plastic waste from the ocean:

<https://education.lego.com/en-us/lessons/wedo-2-science/cleaning-the-ocean>

- Designs in Log books

Links to History topic:

Build a Viking Longboat from recycled plastic bottles.

Year 6

Links to Science:

Micro plastic investigation – Activity from Science Week 2019

Ellen Macarthur Foundation – The Circular Economy

Redesigning packaging activity

<https://www.youtube.com/watch?v=JEKtmTvE2e8>

Repurposing plastic bottles into pencil cases.

<https://makeit-loveit.com/no-sew-zipper-cases-from-old-soda-or-water-bottles>

Useful Links:

<https://www.plasticeducation.com/plastic-education/lesson-plans>

<https://www.plasticeducation.com/world-record>

http://d3k04j8sntl664.cloudfront.net/wp2/wp-content/uploads/Washed_Ashore_IAMDC_Art_Lessons.pdf

<http://washedashore.org/iamdc/>

<https://www.google.com/search?q=how+to+make+a+weaving+loom+out+of+cardboard&oq=how+to+make+a+weaving+loom+&aqs=chrome.2.69i57j0l5.8671j0j9&sourceid=chrome&ie=UTF-8#kpvallbx=1>

<http://www.megacrafty.com/2013/02/cd-case-greenhouse.html>

Is your fleece polluting the ocean? <https://www.youtube.com/watch?v=toU15Q9MAWQ&feature=youtu.be>